

6AQ5-A

BEAM POWER TUBE

7-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA		
Electrical:		
Heater, for Unipotential Cathode: Voltage 6.3 Current 0.45 Warm-up time (Average). 11 For definition of heater warm-up time and met it, see sheet HEATER WARM-UP TIME MEASURI this Section.	hod of determ	sec
Direct Interelectrode Capacitances (Approx Grid No.1 to plate	lo.2,	β <i>μ</i> μf
Mechanical:		
Operating Position. Maximum Overall Length. Maximum Seated Length. Length, Base Seat to Bulb Top (Excluding ti Diameter. Dimensional Outline Bulb. Base. Small-Button Miniature 7- Basing Designation for BOTTOM VIEW.	p) 2" . 0.650" to See General	2-3/8" ± 3/32" > 0.750" Section .T5-1/2
Pin 1-Grid No.1 Pin 2-Cathode, Grid No.3 Pin 3-Heater	Pin 4 - Heat Pin 5 - Plat Pin 6 - Grid Pin 7 - Grid	e No.2
AMPLIFIER — Class A,		
Maximum Ratings, Design-Center Values:		
PLATE VOLTAGE	250 max. 250 max. 2 max. 12 max. 200 max. 200 max.	volts watts watts volts
^O ,▲: See next page.	← Indicates a	change.

6ACISTA

(RCA) 6AQ5-A

BEAM POWER TUBE

	_
Typical Operation and Characteristics:	
Plate Voltage	
Maximum Circuit Values:	
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. megohm For cathode-bias operation 0.5 max. megohm	
AMPLIFIER - Class AB	
Maximum Ratings, Design-Center Values:	
PLATE VOLTAGE	
Typical Push-Pull Operation:	
Unless otherwise specified, values are for 2 tubes	
Plate Voltage	
O,♠,●: See next page.	
DATA	



BEAM POWER TUBE

	Maximum Circuit Values:
	Grid-No.1-Circuit Resistance:●
-	For fixed-bias operation 0.1 max. megohm
-	For cathode-bias operation 0.5 max. megohm
	Tot cathode bras operation
	VERTICAL-DEFLECTION AMPLIFIER
	Triode Connection †
	Maximum Ratings, Design-Center Values Except as Noted:
	For operation in a 525-line, 30-frame system
	DC PLATE VOLTAGE 250 max. volts
`	PEAK POSITIVE-PULSE PLATE VOLTAGE*
	(Absolute maximum) 1100 max. volts
	PEAK NEGATIVE-PULSE GRID-No.1
	(CONTROL-GRID) VOLTAGE 250 max. volts
	PEAK CATHODE CURRENT 105 max. ma
	DC CATHODE CURRENT 35 max. ma
	PLATE DISSIPATION 9 max. watts
	PEAK HEATER-CATHODE VOLTAGE:
	Heater negative with respect to cathode . 200 max. volts
	Heater positive with respect to cathode . 200⁴ max. volts
	BULB TEMPERATURE (At hottest point on bulb surface)
i	on bulb surface) 250 max. OC
	Characteristics:
	Plate Voltage 250 volts
	Grid-No.1 Voltage12.5 volts
	Amplification Factor 9.5
	Plate Resistance (Approx.) 1970 ohms
	Transconductance 4800 μ mhos
,	Plate Current 49.5 ma
	Grid-No.1 Voltage (Approx.) for
	plate ma. = 0.537 volts
	Maximum Circuit Values:
	Grid-No.1-Circuit Resistance:
	For cathode-bias operation 2.2 max. megohms
\	O Without external shield.
	The dc component must not exceed 100 volts.
	The type of input coupling used should not introduce too much resistance in the grid-No.1 circuit. Transformer- or impedance-coupling devices
	are recommended.
	Grid-No.2 (Screen-grid) connected to plate.
	AS described in "Standards of Good Engineering Practice Concerning
,	Television Broadcast Stations," Federal Communications Commission. * This rating is applicable where the duration of the voltage pulse does
	not exceed 15 per cent of one vertical scanning cycle. In a 525—line, 30—frame system, 15 per cent of one vertical scanning cycle is 2.5
	30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.
	Under no circumstances should this absolute value be exceeded.
	→ Indicates a change.

6ACS-A



BEAM POWER TUBE

CURVES
For the 6AQ5-A, within its ratings, are the same as those shown for Type 6V6